

## PROJECT DESCRIPTION

### I. GENERAL:

THIS PROJECT INVOLVES CHANGING AN INTERSECTION CONTROL BEACON TO A FULL COLOR TRAFFIC CONTROL SIGNAL AT MD 158 (BETHLEHEM BLVD.) AND WHARF ROAD IN BALTIMORE COUNTY. THE EXISTING STREET LIGHTING, STREET NAME SIGNS AND ROUTE ASSEMBLIES SHALL BE MAINTAINED.

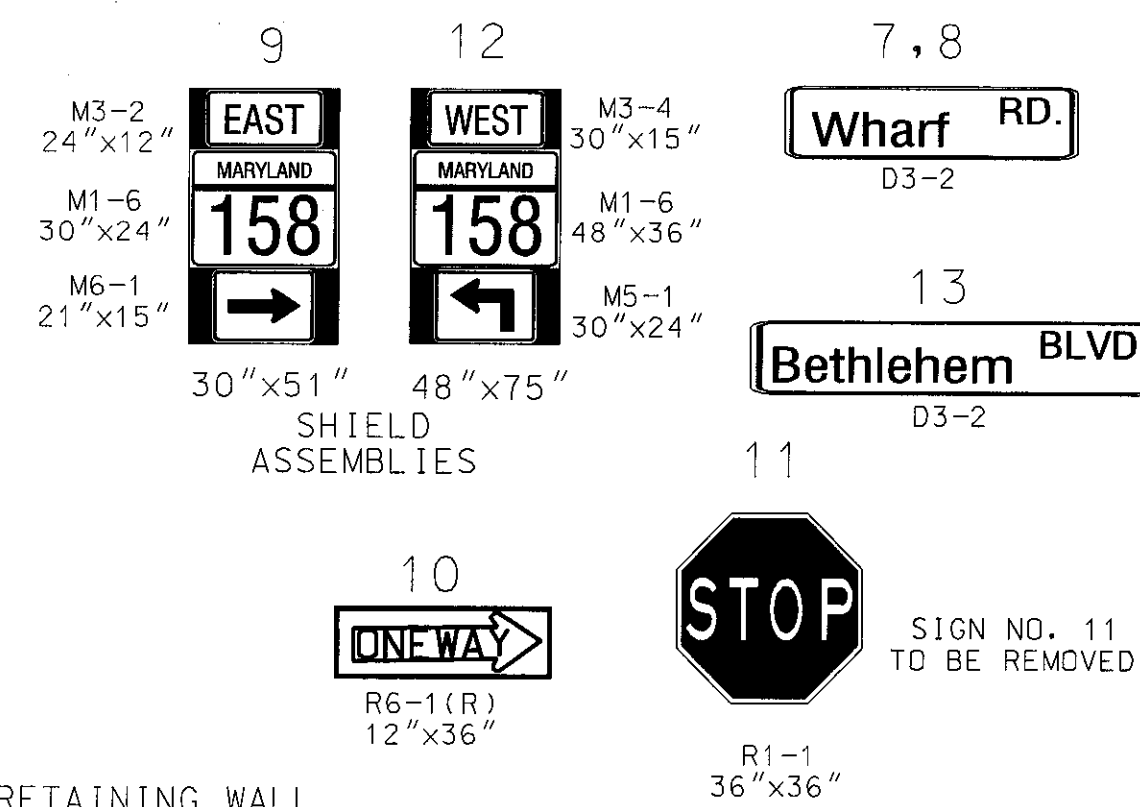
MD 158 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

### II. INTERSECTION OPERATION:

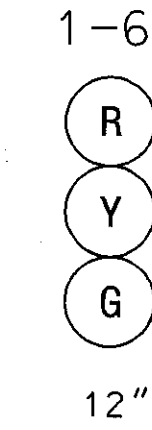
THE INTERSECTION SHALL OPERATE IN A NEMA THREE-PHASE, SEMI-ACTUATED MODE WITH VIDEO CAMERA DETECTION FOR WHARF ROAD. MD 158 AND WHARF ROAD IS INCLUDED IN THE MD 157/MD 158 SIGNAL SYSTEM.

A NEMA EIGHT-PHASE, FULL-ACTUATED CONTROLLER WITH ALL NECESSARY EQUIPMENT AND FOUR-CHANNEL AMPLIFIER SHALL BE INSTALLED IN THE EXISTING SIZE '6' BASE-MOUNTED CABINET AT THE INTERSECTION. THE INTERCONNECT AND CAMERA INTERFACE PANELS SHALL REQUIRE REWIRING.

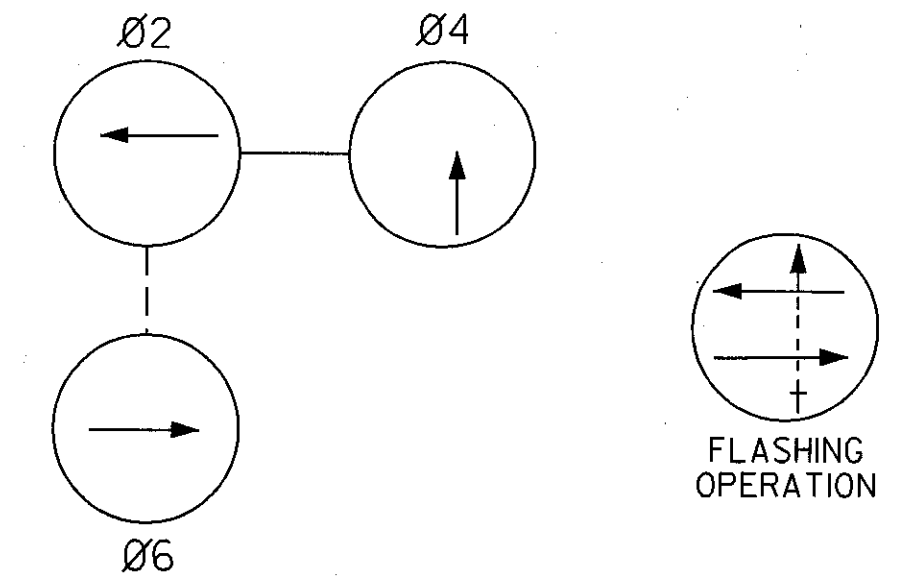
## EXISTING SIGNS



## PROPOSED SIGNALS



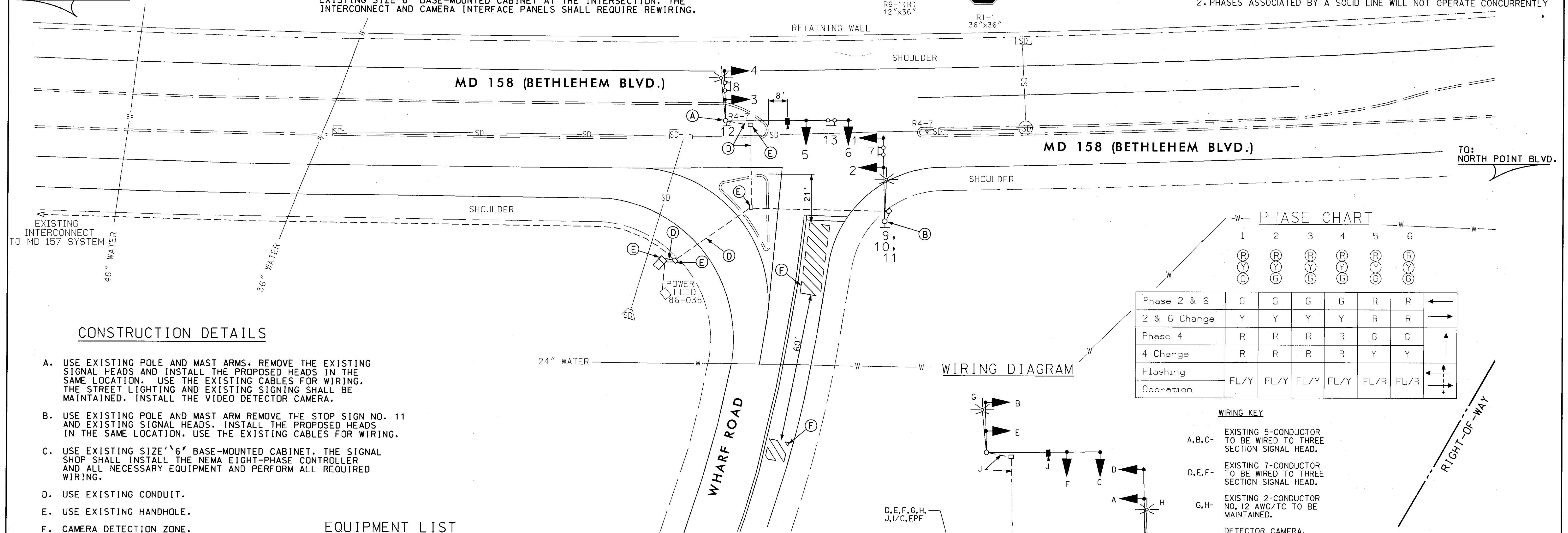
## PROPOSED NEMA PHASING



### NOTES:

- PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
- PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY

TO:  
PENINSULA EXPRESSWAY



## CONSTRUCTION DETAILS

- USE EXISTING POLE AND MAST ARMS. REMOVE THE EXISTING SIGNAL HEADS AND INSTALL THE PROPOSED HEADS IN THE SAME LOCATION. USE THE EXISTING CABLES FOR WIRING. THE STREET LIGHTING AND EXISTING SIGNING SHALL BE MAINTAINED. INSTALL THE VIDEO DETECTOR CAMERA.
- USE EXISTING POLE AND MAST ARM REMOVE THE STOP SIGN NO. 11 AND EXISTING SIGNAL HEADS. INSTALL THE PROPOSED HEADS IN THE SAME LOCATION. USE THE EXISTING CABLES FOR WIRING.
- USE EXISTING SIZE '6' BASE-MOUNTED CABINET. THE SIGNAL SHOP SHALL INSTALL THE NEMA EIGHT-PHASE CONTROLLER AND ALL NECESSARY EQUIPMENT AND PERFORM ALL REQUIRED WIRING.
- USE EXISTING CONDUIT.
- USE EXISTING HANDHOLE.
- CAMERA DETECTION ZONE.

## EQUIPMENT LIST

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE SHA.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC.
1002	1 EA	REMOVE AND DISPOSE EXISTING EQUIPMENT.
9000	1 EA	NEMA EIGHT-PHASE, FULL-ACTUATED ASC II WITH TELEMETRY CONTROLLER AND ALL NECESSARY EQUIPMENT. REWIRING OF EXISTING CABLE TO CONTROLLER AND CABINET PANELS.
9000	1 EA	VIDEO DETECTOR CAMERA.
9000	1 EA	CONTROL CABLE, 200' VIDEO DETECTOR TO CONTROLLER.
9006	18 EA	12", I-WAY, I-SECTION SIGNAL HEAD.
9016	1 EA	FOUR CHANNEL AMPLIFIER.

## PROJECT CONTACTS

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY:

MR. RICHARD DAFF SR.  
CHIEF, TRAFFIC OPERATIONS  
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TRAFFIC OPERATIONS DIVISION  
410-787-7631

MR. EDWARD RODENHIZER  
TEAM LEADER -  
SIGNAL OPERATIONS  
410-787-7652

MR. DERRICK DICKERSON  
PROJECT MANAGER -  
TRAFFIC ENGINEERING  
DESIGN DIVISION  
410-787-5856

## UTILITIES LEGEND

- A— AERIAL CABLES
- G— GAS MAIN
- E— ELECTRIC CABLES
- T— TELEPHONE CABLES
- W— WATER MAIN
- S— SEWER MAIN
- SD— STORM DRAIN

**CENTURY ENGINEERING, INC.**  
CONSULTING ENGINEERS - PLANNERS  
32 WEST ROAD  
TOWSON, MARYLAND 21204

REVISIONS	APPROVALS
A CHANGE THE I.C.B. TO FULL COLOR SIGNAL 5/1/04	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
SPP EMM 1/1/04	ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, TRAFFIC & SAFETY

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
Office of Traffic & Safety  
**TRAFFIC ENGINEERING DESIGN DIVISION**  
TRAFFIC SIGNAL PLAN  
MD 158 AT WHARF ROAD

DRAWN BY: WELLS & ASSOC.	F.A.P. NO. BW-810-802-412	TS NO. 3509A	SHEET NO. 1 OF 1
CHECKED BY: WELLS & ASSOC.	S.H.A. NO. Baltimore	T.I.M.S. NO. 6236	
SCALE: 1" = 20'	COUNTY: Baltimore	LOG MILE: 03045002.78	
DATE: 5/1/95			

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6/1/2004